Assignment-2

HTML, CSS, DB2, Python &Flask

Assignment Date	13 October 2022
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Maximum Marks	2 Marks

Question-1:

- 1. Create User table with email, username, roll number, password.
- 2. Perform UPDATE, DELETE Queries with user table
- 3. Connect python code to db2.
- 4. Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page.
- 5. Authenticate user with username and password. If the user is valid show the welcome page

Solution:

Index.py

```
from flask import Flask, render template, request, redirect,
url_for, flash, session import sqlite3
app = Flask(__name___)
app = Flask(name)
app.secret key =
"12345"
def init db():
 db = sqlite3.connect('Users.db')
 with open('UserScheme.sql', 'r') as
   schema:
   db.executescript(UserScheme.re
   ad())
 db.commit()
@app.cli.command('in
itdb') def
initdb cmd():
 init db()
 print("Initialised database.")
def get db():
 conn =
 sqlite3.connect('Users.db')
 conn.row factory =
 sglite3.Row return conn
```

@app.route(
'/') def
home():

```
return render template('home.html')
@app.route('/
login') def
login():
 return render template('signin.html')
@app.route('/
register') def
register():
 return render template('signup.html')
@app.route('/signup', methods =
["POST", "GET"]) def signup():
 if request.method == "POST":
   Username =
   request.form["Username"]
   EmailId =
   request.form["EmailId"]
   Password =
   request.form["Password"] db =
   get db()
   curr = db.cursor()
   curr.execute('INSERT INTO Users (Username, EmailId, Password) VALUES (?, ?, ?);',
(Username, EmailId, Password))
   db.commi
   t()
   curr.close
   ()
   db.close()
   return render template('signin.html', title="signin",
 succ="Registration Successfull!") return
 render_template('signup.html', title='Sign Up')
@app.route('/signin', methods =
["POST", "GET"]) def signin():
 error = None
 if request.method == "POST":
   Username =
   request.form["Username"]
   Password =
   request.form["Password"] db =
   get db()
   Users = db.execute('SELECT Password FROM Users WHERE Username = ?', (Username,
   )).fetchone()
   if Users is None:
     session['logged in'] = False
     error = 'Incorrect
   Username/Password.' elif
   Password != Users['Password']:
     session['logged in'] =
     False print(Users)
     error = 'Incorrect Password.'
   if error is None:
     session['logged in'] =
     True return
     redirect(url for('home'))
   flash(err
```

```
or)
db.close(
)

return render_template('signin.html', title='Sign In',

error=error) if ___name_ == '_main_':
app.run(debug = True)
```

UserScheme.sql

```
DROP TABLE IF EXISTS
Users:
CREATE TABLE Users (
 id INTEGER PRIMARY KEY AUTOINCREMENT,
 Username TEXT NOT
 NULL, Emailld
 VARCHAR NOT NULL.
 Password VARCHAR NOT NULL
):
INSERT INTO Users (Username, EmailId,
 Password) VALUES ("KK",
 "KK2002@gmail.co
 m", "KK@123",
):
base.html
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta http-equiv="X-UA-Compatible" content="IE=edge">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>{% block title %}{% endblock %}</title>
 link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css"
rel="stylesheet" integrity="sha384-
KyZXEAq3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We"
crossorigin="anonymous">
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.bundle.min.js"</pre>
integrity="sha384-
U1DAWAznBHeqEllVSCgzq+c9gqGAJn5c/t99JyeKa9xxaYpSvHU5awsuZVVFIhvj"
crossorigin="anonymous"></script>
 <script src="https://kit.fontawesome.com/78bf8e323a.js"</pre>
 crossorigin="anonymous"></script>
 <!--<script type="text/javascript" src="{{ url for('static', filename = 'js/proj.js')}}"></script>
 <link rel="icon" href="{{url for('static', filename = 'image/icon.png')}}" color</pre>
="#191919" sizes="any" type="image/png">-->
 <link rel="stylesheet" href="{{ url for('static', filename = 'css/style.css')}}">
</head>
<body>
<div class="navigation">
 <!--<nav class="navbar navbar-expand-lg navbar-dark">
   <div class="container-fluid">
    <a class="navbar-brand" href="/" title="PaperBoat"><i class="fas
    fa-ship"></i>PaperBoat</a>
    class="nav-item">
      <a class="nav-link" aria-current="page" href="/" title="Home Page"><i class="fas
fa-home" style="color: white;"></i>Home</a>
```

```
  <a class="nav-link" href="#" title="How to write an essay">About</a>

class="nav-item">
```

```
<a class="nav-link" href="#" title="Essay Topics">Contact</a>
     <a class="nav-link dropdown-toggle" href="#" id="navbarDarkDropdownMenuLink"
role="button" data-bs- toggle="dropdown" aria-expanded="false">
      {% if session.logged in %}
        welcome <i class="far fa-smile-wink"></i>!!
      {% else %}
        User
        settings
      {% endif %}
      </a>
      ul class="dropdown-menu dropdown-menu-dark" aria-
     labelledby="navbarDropdownMenuLink">
      {% if session.logged in %}
       <a class="dropdown-item" href="/logout">Logout</a>
      {% else %}
       <a class="dropdown-item" href="/register">Register</a>
       <a class="dropdown-item" href="/login">Login</a>
      {% endif %}
     </div>
    </
  nav>--
 <nav class="navbar navbar-expand-lg bg-dark">
  <div class="container-fluid">
   <a class="navbar-brand" href="/">PaperBoat</a>
   <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-
target="#navbarNav" aria- controls="navbarNav" aria-expanded="false" aria-
label="Toggle navigation">
   <span class="navbar-toggler-icon"></span>
   <div class="collapse navbar-collapse" id="navbarNav">
   <a class="nav-link active" aria-current="page" href="/">Home</a>
    class="nav-item">
     <a class="nav-link" href="#">About</a>
    <a class="nav-link" href="#">Contact</a>
    <a class="nav-link dropdown-toggle" href="#" id="navbarDarkDropdownMenuLink"</pre>
role="button" data-bs- toggle="dropdown" aria-expanded="false">
      {% if session.logged in %}
       welcome <i class="far fa-smile-wink"></i>!!
      {% else %}
       User
```

settings

```
{% endif %}
     </a>
     ul class="dropdown-menu dropdown-menu-dark" aria-
     labelledby="navbarDropdownMenuLink">
      {% if session.logged in %}
       <|i><a class="dropdown-item" href="#">Logout</a>
      {% else %}
       <a class="dropdown-item" href="/register">Register</a>
       <a class="dropdown-item" href="/login">Login</a>
      {% endif %}
     </div>
  </div>
 </nav>
</div>
{% block content %}{% endblock %}
</body>
</html>
home.html
{% extends 'base.html' %}
{% block title %} Home {% endblock %}
{% block content %}
<br><br><
<div>
 <div>
  <h1>Welcome To PaperBoat.
                               !</h1>
   This website was created to do the follows. <br>
    1.Create user table with email,
   username,password<br> &emsp;2.perform
   update, delete gueries with usertable < br >
    3.create a flask app with registration page, login page, welcome page. By
default load the registration page once the user enters all the
      fields store the data in database and navigate to login page. Authenticate user
with username and password. If the user is valid show the welcome page.
  </div>
</div>
{% endblock content %}
signin.html
{% extends 'base.html' %}
{% block title %} Login {% endblock %}
{% block content %}
<div class="login-frame" id="id01">
 <form action="/signin" class="loginform" method="post">
   <h1>LOGIN</h1>
```

```
<div class="group">
    {% with messages = get flashed messages(with categories=true) %}
      {% if messages %}
       {% for category, message in messages %}
         {{message}}
       {% endfor %}
   {% endif %}
 {% endwith %}
    <input type="text" name = "Username" placeholder="Username" required>
   </div>
   <div class="group">
    <input type="password" name="Password" placeholder="Password" required>
   </div>
   <div class="group">
    <input type="submit" name="signin" id="signin" value="Login">
   </div>
   <div class="foot">
    <hr>
    >Don't have an account?<a href="/register"</p>
    onclick="check(this.form)"><i>Signup</i>
 </div>
</form>
</div>
{% endblock content %}
signup.html
{% extends 'base.html' %}
{% block title %} Signup {% endblock %}
{% block content %}
<div class="signup-frame" id="id02">
 <form action="/signup" class="signupform" method="post">
   <h1>SIGNUP</h1>
   <div class="group">
    {% with messages = get flashed messages(with categories=true) %}
      {% if messages %}
       {% for category, message in messages %}
         {{message}}
       {% endfor %}
   {% endif %}
 {% endwith %}
    <input type="text" name = "Username" placeholder="Username" required>
   </div>
   <div class="group">
    <input type="email" name = "EmailId" placeholder="Email Id" required>
   </div>
   <div class="group">
    <input type="password" name="Password" placeholder="Password" required>
   </div>
```

```
<div class="group">
     <input type="submit" name="signup" id="signup" value="Signup">
   </div>
   <div class="foot">
     <hr>
     Already have an account?<a href="/login"><i>Signin</i></a>
 </div>
</form>
</div>
{% endblock content %}
style.css
body{
 /*background-color: rgb(54, 54, 54);*/
 background: linear-gradient(to right, rgb(92, 91, 91), rgb(0,0,0));
}
/* navbar */
#navbar-brand{
 color: white:
 position:
 relative;
}
.navigation .navbar {
 background: linear-gradient(to right, rgb(92, 91, 91),
 rgb(0, 0, 0)); font-family: "Montserrat";
}
.navigation .navbar-
 brand { text-
 transform:
 uppercase; letter-
 spacing: .1em;
 text-decoration:
 underline; color: #fff;
 position: relative;
}
.navbar-brand:hover, .navbar-
 brand:focus { text-decoration:
 none;
}
.navigation .navbar .nav-
 item .nav-link { outline: none
 !important;
 font-size: 13px;
 text-transform:
 uppercase; letter-
 spacing: .1em;
 color:#fff;
 text-decoration:
 none; font-family:
 "Montserrat";
.navigation .navbar .nav-item .nav-
```

```
link:hover, .nav-link:focus { text-decoration:
  underline;
}
/*____sigin-form____*/
```

```
.login-
 frame{
 margin:
 0;
 padding: 0;
 font-family: sans-
 serif; border:
 none
}
.loginform{
 max-width:
 500px;
 margin: auto;
 top: 50px;
 width:
 400px;
 padding:
 30px;
 position: relative;
 background:
 #191919; text-
 align: center;
 transition: 0.25s;
 border-radius:
 20px;
.loginform input[type="text"],
.loginform
 input[type="password"] {
 border: 0;
 background:
 none; display:
 block; margin:
 20px auto;
 text-align:
 center;
 border: 2px solid
 #3498db; padding:
 10px 10px; width:
 250px;
 outline:
 none;
 color:
 white:
 border-radius:
 24px; transition:
 0.25s;
 color: rgb(156, 156, 156);
}
.loginform
 h1 {
 color:
```

```
white;
text-transform:
uppercase; font-
weight: 500
}
.loginform input[type="text"]:hover,
.loginform
  input[type="password"]:hover {
   width: 300px;
   border-color: #2ecc71
}
.loginform
  input[type="submit"] {
   border: 0;
   background: none;
```

```
display: block;
 margin: 20px
 auto; text-
 align: center;
 border: 2px solid
 #2ecc71; padding:
 14px 40px; outline:
 none;
 color: white;
 border-radius:
 24px; transition:
 0.25s; cursor:
 pointer
}
.loginform
 input[type="submit"]:hover{
 border: 2px solid #2ecc71;
 background: linear-gradient(to right, #2ecc71, #1565c0);
}
.foot p, a{
 color: rgb(156, 156, 156);
}
.foot hr{
 color: rgb(92, 91, 91);
}
.flash-msg{
 background-color:
 #191919; border:
 none;
/*----signup-form---*/
.signup-
 frame{ m
 argin: 0;
 padding: 0;
 font-family: sans-
 serif:
           margin-
 bottom:
              10px;
 border: none
.signupform{ w
 idth: 400px;
 padding:
 30px;
 position:
 relative;
 max-width:
 500px;
 margin: auto;
 top: 50px;
 background:
 #191919; text-
```

```
align: center;
transition: 0.25s;
margin-top: 20px;
border-radius:
   20px;
}
.signupform input[type="text"],
.signupform input[type = "email"],
```

```
.signupform
 input[type="password"] {
 border: 0;
 background:
 none; display:
 block; margin:
 20px auto;
 text-align:
 center;
 border: 2px solid
 #3498db; padding:
 10px 10px; width:
 250px;
 outline:
 none;
 color:
 white;
 border-radius:
 24px; transition:
 0.25s;
 color: rgb(156, 156, 156);
}
.signupform
 h1 { color:
 white;
 text-transform:
 uppercase; font-
 weight: 500
.signupform input[type="text"]:hover,
.signupform input[type = "email"]:hover,
.signupform
 input[type="password"]:hover {
 width: 300px;
 border-color: #2ecc71
}
.signupform
 input[type="submit"]{
 border: 0;
 background:
 none; display:
 block; margin:
 20px auto;
 text-align:
 center:
 border: 2px solid
 #2ecc71; padding:
 14px 40px; outline:
 none;
 color: white;
 border-radius:
 24px; transition:
```

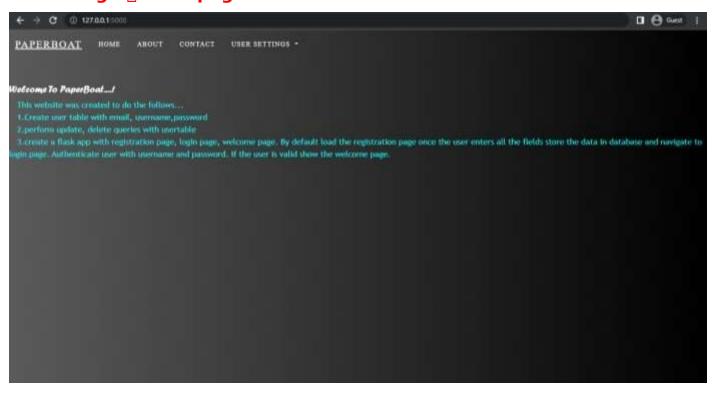
```
0.25s; cursor:
  pointer
}
.signupform
  input[type="submit"]:hover {
  border: 2px solid #2ecc71;
  background: linear-gradient(to right, #2ecc71, #1565c0);
}
/*-----signout-form---*/
.signout-frame{
```

```
margin: 0;
 padding: 0;
 font-family: sans-
           margin-
 serif:
 bottom:
              10px;
 border: none
.signoutform{
 width: 400px;
 padding:
 30px;
 position:
 relative;
 max-width:
 500px;
 margin: auto;
 top: 50px;
 background:
 #191919; text-
 align: center;
 transition: 0.25s;
 margin-top: 20px;
 border-radius:
 20px;
}
.signoutform input[type="text"],
.signoutform input[type = "email"],
.signoutform
 input[type="password"] {
 border: 0;
 background:
 none; display:
 block; margin:
 20px auto;
 text-align:
 center;
 border: 2px solid
 #3498db; padding:
 10px 10px; width:
 250px;
 outline:
 none:
 color:
 white:
 border-radius:
 24px; transition:
 0.25s;
 color: rgb(156, 156, 156);
}
.signoutform
 h1 { color:
 white:
```

```
text-transform:
  uppercase; font-
  weight: 500
}
.signoutform input[type="text"]:hover,
.signoutform input[type = "email"]:hover,
.signoutform
  input[type="password"]:hover {
  width: 300px;
  border-color: #2ecc71
}
```

```
.signoutform
 input[type="submit"]{
  border: 0;
  background:
 none; display:
 block; margin:
 20px auto;
 text-align:
 center;
 border: 2px solid
  #2ecc71; padding:
 14px 40px; outline:
 none;
 color: white;
  border-radius:
 24px; transition:
 0.25s; cursor:
 pointer
}
.signoutform
 input[type="submit"]:hover {
 border: 2px solid #2ecc71;
 background: linear-gradient(to right, #2ecc71, #1565c0);
}
/*_____*/
h1{
 color: #fff;
 font-family:
 Forte; font-
 size: larger;
}
p{
 color: aqua;
 font-family: 'Trebuchet MS', 'Lucida Sans Unicode', 'Lucida Grande', 'Lucida Sans', Arial, sans-
 serif;
}
```

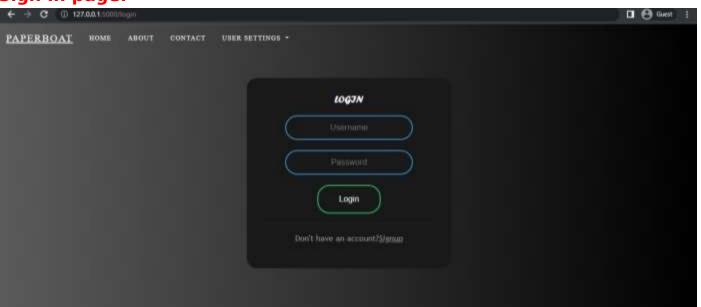
Before login home page



Signup page:



Sign in page:



After login home page

